L. & M.
1,500—29-3-99.

Local & Munl. (1897) Department.

MISCELLANEOUS.

G.O., No. 212 M.

DATED 12. 2. 97.

[Despatch Abstract.]

Protective Bund at Rajahmundry

Communicating to the Municipal Council of Rajahmundry, for necessary action, the Chief Engineer's note regarding the Construction of the —

2-19/2/97

— an alteration which —

BACK PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.	G.O.	No.	Department.	Date.
C°	713 L/97						

Protective bund in the Rajahmundry municipality.

[5]
500—27-5-95.

LOCAL AND MUNICIPAL DEPARTMENT.

3

Papers to be read in Proceedings:—

Again G.O., dated 189 , No.

Current No. 1751 M. of 1896, dated 14th June 96 from the Collector of Godavari

Current No. 2291 M. of 1896, dated 1st August 96 from the Do

— 3343. — " — 12-12-96 — " — P. W. Department.

Misc.

Order. No 2.2 Munis 12-2-97

The Chief Engineer's note, No. 218. I. dated, 2d December 1896, will be communicated to the municipal council of Rajahmundry for such further action as may be necessary.

(True extract)

From orders,

12
11/2/97

To The Chairman, M. C. Rajahmundry thro' the Collector of Godavari (with plans & estimates retd.) (with Collector's endts.)
" Public Works Department. Sept Co.

Despd 19/2/97
Despd 18/2/97

→ Despatched post
+ Memo despd 19/2/97

1

Note for the First Asst.

L. & M. Dept.

Transmit the plans which have just been received from the Irrigation office

Rur
18/2/97.

9th 19/2/97

Plans passed 19/2/97
& despd to the Collector
Godavari 19/2/97

Protective bund in the Rajahmundry Municipality

4

LOCAL AND MUNICIPAL DEPARTMENT.

Current Nos. 1751 M, 2291 M & 3343 M
of 1896

From

L. 1751 m 6 14th June 96 Collector of Godavari
2291 m 6 1st August " "
3343 m 12 " 96 P. W. "

The Chief Engineer
[illegible] No 218 [illegible]

FOR ORDERS.

× Flag. A.
× Flag. B.

Please see the notes and orders in G.Os.Nos.1402 M, dated 6th October 1894 and No. 1985 M, dated 18th December 1894.

2. The Municipal Council of Rajahmundry having declared that a protective bund along the river was necessary to the well-being of the town, and that it was ready to borrow the money required for its construction, the Public Works Department was asked in G.O.No.1985 M, dated 18th December 1894 to have a detailed estimate for the work drawn up and scrutinized and to forward it to Government. Accordingly an estimate amounting to Rs.31,600 was prepared by the Executive Engineer, Mr. Garrett, and it was approved by the then Chief Engineer, Col. Brockman. But as it was stated in Mr.Garrett's letter that the bund, if constructed, would cause inconvenience to boat traffic and that the drainage

G.O. 797. M
11-5-96

would

an intimation which

5

would stagnate on the town side of the bund when the river was high, the Government referred the question again to the municipal council for remarks. × Flag. C. In reply to this the Chairman said that the proposed bund would not in the council's opinion, cause any inconvenience to the boat traffic, but would on the other hand tend to improve the drainage of the town, and he requested Government to make over to the municipal council the vacant site which would be enclosed by the bund and to sanction the scheme and advance the sum of ₨.31,000 required for the work as a loan to be repaid within 5 years. × Flag. D. The Chairman further stated that it was intended to construct a road between the bund and the houses for the purpose of relieving the congestion of traffic in the main street and to sell the spare land on the town side of the bund as building-sites for godowns and that the sale of the sites would fetch some thousands of rupees.

3. The Public Works Department to which the above letter was referred for remarks has now traversed the whole question. The Superintending Engineer, Mr. Larminie, after an examination of the plans and estimates prepared by Mr. Garrett, × Flag. E. considers that there are several objections to the adoption ~~of the latter~~. He says that there is not sufficient space between the bund as aligned and the houses, to admit of the construction of the road contemplated by the council, that the slopes allowed for the bund are insufficient, that the designs for catch drains and culverts are unsuitable and that it would cost ₨.50,000 to carr out the work properly. The Chief Engineer for Irrigation observes that all the available sources of information ha not been examined in framing the original estimate, ~~that the latter~~ which by no mean represents all the work which would be required and that the whole of the land enclosed by the bund will have to be raised above the ordinary flood level. He concludes by saying that as the gro slopes towards the river, the cost of the bund would increase rapidly with the distance from houses and that there is strong reason to recommend that the municipal council should give up the ide of enclosing land for building sites & mark out only what is required for the road. When this is done, the Chief Engineer says, the Public Works Departme may be asked to frame an estimte for wall or bank along the edge of the ro for raising the enclosure and makin the road.

4. In these circumstances no actio can be taken now as required by the -man in his letter No.1550 dated 29t May 1896 and the Chief Engineer's no may, it is submitted, be communicated the municipal council for necessary tion.

V.R.
5/2/97

H.M.

In his letter of 29 May 1896 the Chairman asked not only a loan of the R31,000 but free grant of the reclaimed - an alienation which wd

---

From

The 1st Assistant
Local & Municipal Dept.

To

The Chief Asstt.
P.W.D.

Please return the plans relating to the protective bund at Rajamundry forwarded with our endorsement No. 1032 dated 2 September 1896. They do not appear to have been received in this office along with your endorsement No. 4825C d/ 12 Decr/96.

Recd
5-25 P.M.
H.S.
16-2-97.

M.R.I

Will you please let me know whether the plans are in I office

Rur
7/2/97

HC Brl

Herewith the plans.

BR
18/2/97

Require the sanction of the Govt of
India. Re the site being leased out
sold by the Muny with the prospect
a large profit which wd. enable
the Munl. Council to repay the Govt.
an. Thus the Govt wd. give the
an as well as the means of
paying it. But however this
y be the C. Engr. for Irrigation
points out the inexpediency
marking out the reclaimed
d for ~~house~~ building sites;
his opinion nothing more than
road shd be laid out. Finally
points out that about R50,000
really be required.
Note may therefore be communicated to the M. Council
such further action as
be necessary

Note of 2 Oct 96

6/1/97

10/1/97

FOR ORDERS.

8

LOCAL AND MUNICIPAL DEPARTMENT.

Local & Municipal Dept.
CURRENT No. 1757 M.

SUPERINTENDING ENGINEER, FIRST CIRCLE
No. 772
29 SEP. 96

PR.

From

The Collector of Godavari

R 21 8 G

Reference. 811/13/7/96

The chairman will be requested to submit without delay the plans referred to in paragraphs 11 and 13 of his letter which have not yet been received in the Government office.

HR 3-7-96

6-7-96

Dis a C No. 837/Eng.

Dated 14 } June 1896
Received 22 }
Enclosures 18.

SUBJECT.

Submitting Rajahmundry Munl. Chairman's letter No. 550/29-5-96 requesting sanction for the construction of a bund on the northern side of the Godavari river in the old Town of Rajahmundry & ~~to make a loan~~ for the grant of a loan of its estimated cost from Provincial funds.

To

The Chairman, M.C. Rajahmundry

13/7

Despd. 13/7/96

(with a refce)

CHIEF ENGINEER
FOR IRRIGATION.
14 NOV. 96
No............................

[illegible] 25/X/96

9

MUNICIPAL OFFICE, RAJAHMUNDRY

No 550.

DATED. 29th May 1896.

From M. R. Ry. N. Jaladurgaprasadarayudu Garu B.A.
The Chairman, Municipal Council,
Rajahmundry.

Local & Municipal D
CURRENT No. 1751 M

To

The Chief Secretary to Government
Local & Municipal Department
MADRAS.
Through the Sub-Collector Godavery.

SUB-COLLECTOR'S OFFICE
Regd No ....
RECC - 4 JUN. 96
GODAVERY DISTRICT.

Sir,

With reference to G.O. No 797 M. Mis dated 11th May 1896, referring to the Municipal Council for remarks para 3 of the Superintending Engineer's letter No 2733, G.D. dated 29th February 1896, I have the honor to state that the Council is of opinion (Copy of resolution enclosed) that the construction of the bund does not cause any inconvenience to boat traffic, and that it will improve the drainage of the town.

At present in high floods a large part of the old town to the west of the main road, will be under water, and much inconvenience is caused to boat

tra

traffic, as boats cannot then anchor in the old town to land goods and passengers but will have to do so near the bund in Innespetta. The construction of the proposed bund removes this inconvenience and boats can with greater facility than before anchor in the old town, near the new bund in all seasons. The Public Works Department in its estimate for the bund, made provision for ramps opposite all the important streets leading from the main road to the river, as also for flights of steps on the river side of the bund, and these sufficiently provide nvenient passages for ingress and egress and from the river. It will thus be en that the proposed bund instead of using any inconvenience to boat traffic, the other hand facilitates it. After the bund is made, I propose that wharfs be constructed in convenient places for the landing of goods &c, and this will be a boon to the public

public besides being a source of income to the Municipality from boats.

I further beg to propose to sell a portion of the vacant site reclaimed by the new bund, for the construction of godowns, and to lay out a broad road between the new bund, and the proposed row of godowns, joining on one side the bund in Innespetta passing by the Godavery North station, and on the other side the road passing by the compound of the Sub-Collector's bungalow. This road would divert a great part of the traffic from the narrow main bazaar road to widen which costs about a lac of Rupees, and is beyond the prest means of the Municipality. The proposed row of godowns which would soon be built by merchants, as they would be near the landing place of boats, also helps to divert the traffic from the main road.

The Executive Engineer thinks that the drainage

drainage water will stagnate on the town side of the bund when the river is high. At present in floods, the drainage water remains in the town itself along with the dirty ~~swollen~~ swollen water of the river and the construction of the bund cannot certainly place the town in a worse position. Provision is made in the estimate for a large drain along the outer toe of the proposed embankment for the conveyance of the drainage water, and for an outfall sluice at the Red Rocks where the ground is lowest. to discharge the drainage water into the river. If there should be a heavy rain when the river is high, which does not generally happen, then, there would be some difficulty for draining the rain water which may remain in the proposed drain for some time, but the town will be better drained than at present.

If found necessary, a small pumping

station

station may be erected at the Red Rocks to pump out such water at that time and this will not cost a large sum.

For the construction of the bund the Council requests that Government be pleased to lend to the Municipality Rs 31,000 its estimated cost to be repaid within 5 years or earlier at the option of the Council, and further requests that the vacant site reclaimed by the proposed bund, be made over to it.

The vacant site is at present of no use to Government which is not deriving any income therefrom. If the bund be raised, the site so reclaimed will be protected from the floods, and can therefore with safety be built upon. As the site becomes of value on account of the bund to be raised by the Municipality the Council hopes that Government will be pleased to transfer the site to it. As explained above, a portion of the

site

site will be sold for the construction of godowns thereon and the remaining portion used for laying a broad road. The site thus sold for godowns will fetch some thousands of Rupees.

Besides, there being a great demand for house sites in Rajahmundry, the Council has recently resolved to acquire about 70 acres of land to the east of Aryapuram or Lister patta (lately proposed to be included within Municipal limits) and to sell it for house sites after properly laying out roads*. By means of this scheme, the Council hopes to make a profit of a few thousand Rupees, which will enable it to discharge a portion of the loan it now asks for making the proposed bund.

The Public Works Department in its estimate proposes to bring sand from opposite the College by train, for making the bund. At the same cost, and most likely at a

little

little less than that, earth from the rampart behind the Police Hospital can be carted to make the bund. This earth is of a very good quality and will I believe make a much stronger bund than sand. The demolition of this rampart has been advocated by the Sanitary Commissioner (vide Sanitary Commissioner's report dated 12th August 1891. No. 1292 M. & para 2 of G. O. 19th July 1893. No. 933. M.) on Sanitary grounds, and its demolition under the present circumstances is in my humble opinion, most desirable as it serves a double purpose, besides giving 2 acres of vacant site to the Municipality which may be sold for house sites under any conditions it may impose, as approved by the Collector and Government. By all these means the Council hopes to be able to discharge the loan now asked for within a short time.

Does it belong to them??

As the construction of the proposed bun

is

is necessary for the well being of the town, and as it improves it in several ways, I request that you will be pleased to move the Government to have the scheme sanctioned to make a loan of the estimated cost, and to transfer to the Municipality the vacant site on the river side.

A survey plan showing the site on the river side and a sketch of the town showing the proposed bund and other roads are submitted.

A few slight modifications of the estimates and plans of the Public Works Department may be considered necessary in view of the proposals made by me above and I request permission to do the needful with the approval of the Divisional Officer.

The plans and estimates received by me with the G.O. under reply are returned herewith.

I have the honor to be
Sir
Your Most obedient Servant
M. S. Aladungaprasadaroyudu.
Chairman

17

COLLECTOR
GODAVARI.

Rajahmundry Municipality

189

Municipal Dept.
CURRENT No. 1757M

From
The Chairman
Municipal Council
Rajahmundry.

To
The Chief Secretary to Government
Local & Municipal Department
MADRAS.

Through the Sub-Collector Godavery.

Dated 29-5-96.

Despatched 3-6-96.

Received

CHIEF ENGINEER
FOR IRRIGATION.
14 NOV. 96
No.

No. 550. Enclosures.

Dr. 11/6 d/ 12/6

SUBJECT.

Requesting to move the Government to have the scheme sanctioned & make a loan of estimated cost. Dis. on C 837/Eng of 96

Desp. 16/6/96

Submitted to the Chief Secretary to Government L & M Dept.
2. I concur with my Sub. Collector in thinking the work a very desirable one & one which would prove of benefit to the town generally, but I doubt if the sale of the land reclaimed would wholly cover the cost. Still the cost is not so great that it is not possible for the Council to repay it with interest in 10 years if it cannot pay off the whole in 5 years. Some contribution towards the work might also I think be demanded from those whose houses are now liable to damage from floods [illegible]

C no. 837/Eng of 1896 15/6/96

Ref. cur 1872/Rev d/ 5/6/96

Des 9/6/96

Sher
Vals
Collr
7 11/6/96

Forwarded.

2. I am strongly of the opinion that the bund should be constructed as proposed. It would save a considerable portion of the town from the damage caused annually by floods, and with proper outfall sluices it would be no hindrance to the flow of drainage water. On the contrary rain water could be pumped out during high floods, a remedy which is impossible at present. The bund would also give increased facilities for boat traffic, as boats could be moored off it at all seasons of the year.

3. The Chairman proposes that the sites reclaimed by the construction of the bund shall be made over to the Municipality, and this is, I think, only fair, as they are valueless at present. As regards providing funds it is proposed that Governme should lend the money, a that it should be repai within 5 years.

18

4. The Chairman conside that money can be raise within that time by the sa of sites on the land recla-ed, which would certain be very valuable, and by the sale of sites in a propos new pettah. I doubt whether the full amount could be raised in this manner, but it is not clear how much land will become available.

5. There can be no doubt that the proposed scheme would improve the sanitation of the town and relieve the main street of a considerable portion of the traffic with which it is, at present, blocked.

Rajahmundry
5.6.96

Ag Sub Collector

5.6.96

C no $\frac{837}{Eng}$ of wgb 15/6/96

19

CHIEF ENGINEER
FOR IRRIGATION.
1st nov. 96
No. 4850

Ou $\frac{8.3}{2731}$/96

No.———— 20

MUNICIPAL OFFICE
RAJAHMUNDRY.
DATE————

Extract from the Proceedings of the Municipal Council, Rajahmundry dated———— 27-5-96.

READ. G.C. No. 797 dated 11-5-96 referring the Superintending Engineer's letter regarding the Protective Bund for remarks.

Resolution No. 159 dated 27-5-96.

The Council is of opinion that by the Construction of the Bund, no inconvenience to boat traffic will be caused, and the drainage of the town will be improved.

It therefore resolves to request the Government to make a loan of the money to be paid back within 5 years, or earlier at the option of the Council, and that the vacant site so reclaimed be made over to the Municipality

(Signed) N. Jala Durgaprasadarayodo
Chairman

(True Extract)

N. Jaladurgaprasadarayodu
Chairman

CHIEF ENGINEER
FOR IRRIGATION.
14 NOV 95
No. 485

SUPERINTENDING ENGINEER
No. [illegible]
29 SEP 95

Letter No. 1965 d/29-8-95 from the Executive Engineer Open line No. 1 Divn E. C. R. to the Executive Engineer Godavari Eastern Division.

In reply to your letter No. 643 L d/22nd Instant, I would suggest that the earth or Sand for Constructing the Embankment, which is to protect the town of Rajahmundry, be obtained from the lanka opposite the College to which a Siding Could easily be laid.

The rate usually paid for loading unloading and Spreading earth or Sand Carried by train is Rs 5/. 0/00 cft.

The Railway rate for earthwork done by train is generally estimated at Rs 10/. 0/00 cft. which includes hire of the train, Cost of laying the necessary temporary Sidings and loading and unloading charges.

I Cannot say at what rate the Traffic Department would hire

23

a train for your work, but the information can be obtained from the Traffic Superintendent Waltair.

SUPERINTENDING ENGINEER, FIRST CIRCLE.
No 1/157/4
26 NOV. 95

CHIEF ENGINEER FOR IRRIGATION.
6 - MAR. 96
No 44 [illegible]

(True Copy)

25/11
Accountant
Godavari Eastern Division

25/11

Supdt. Engineer 1st Circle
Dated 18 February 1896

Ow C-2005
3310/86
2531

2
1751 mig/96

1
1100 mof 96

15,000—5—96.

24

Dis No. 879/Eng of 96.

GODAVARI DISTRICT COLLECTOR'S OFFICE,
Cocanada 1. 8. 1896

Dis 6/8

FROM

V. A. Brodie Esquire.

COLLECTOR,

Godavari District.

TO

THE Chief Secretary to Government
Local and Municipal Department
Madras.

SIR,

With reference to this office dis one no 837/Eng of 96 dated 16. 6. 96 I have the honor to forwa by separate parcel post in a tin case the pl referred to in the Rajahmundry Municipal Chairman's letter no 550/29.5.96 vide also the acting Assistant Secretary's memorandum no 811/13.7.96 to the Chairman.

I have the honor to be,
Sir,
your most obedient Serv
(Sd) V. A. Brodie
Collector

[illegible]
for Collector

Aug 8

25

REVENUE (189) DEPARTMENT.

Local & Municipal Dept.

FROM CURRENT No. 2291 M

The COLLECTOR,

Godavari District.

To

THE Chief Secretary to Government
Local & Municipal Dept
Madras

Dis No. 899/Eng of 96

Dated 1st
Despatched 6th August 1896.
Received 10 AUG. 96

SUBJECT.

Forwarding by separate parcel a tin tube containing plans in continuation of this office Dis no 837/Eng of 96 d 16.6.96

Prs.1 2531/96

13/8.

26

Local & Munl. (1896.) Department.

CURRENT No. 2291.m.

C. nos 1751 M
2291. M.

C.S.

~~Order~~ TO BE RETURNED WITH REPLY.

No. 1032

Refered to the Public Works Department for favour of remarks.

Pr 22/8/96

Ag: Assistant Secretary

V.R. 25/8/96

Fort St George -
2nd ~~August~~ September 1896 }

To The Public Works Department.
(with plans to be returned)

From The Collector of Godavari.

No. 899. Eng:

Dated 1st August 1896.
Received 10th — Do.
Registered — Do. —
Enclosures (1)
Spare copies

SUBJECT.

~~Forwarding, by separate parcel, a tin tube containing~~ relating to the Constn of the protective bund plans, in continuation of this office Dis. no. 837. English. of 1896. dated 16th June 1896.

5

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

G.O.	No.	Department.	Date.
R	218 GD		8.11.96

28

Public Works (1896) Department.

CURRENT No. 7931

~~Order~~ No $\frac{I}{998}$ GD d/19.9.96

Letter No 837 dated 14 June/96 from the Collector of Godavari is forwarded in original (to be returned) to the Supg Engr I Circle for remarks with reference to the objections taken in para 3 of Mr Garett's letter No 2733 GD dated 29 February/96.

19/9/96

19.9.96

From Local & Municipal Department.

No. 1032

Dated 2-8-96

Received 3.9.96

Enclosures ~~18 & a roll of plans in a separate packet~~ 38 (15 plans)

Spare copies

SUBJECT.

Referring to the P.W.D. for favour of remarks, letter from the Collector of Godavari regarding the construction of the protective bund in Rajahmundry.

[illegible] 2733 [illegible] /96

[illegible] 19/9

19.9.96

19/9

BACK PAPERS.

G.O.	No.	Department.	Date.

FURTHER PAPERS.

Receipt or Issue ~~G.O.~~	No.	~~Department.~~	Date.
I	97 ~~4~~	G.D	9.9.96
R	218 GW		8.11.96

Local & Munl. (1896) Department.

R

CURRENT No. 3343 M

3

Order

From The P.W. Deptt

No. ~~4~~ 825C.

Dated 12-12-96

Received

Registered

Enclosures 2 & C. No 2291 M retd with 15 plans

Spare copies.

SUBJECT.

Note on the proposed protective bund at Rajahmundry.

15 DEC. 1896

6/1

a23/1

BACK PAPERS.

G.O.	No.	Department.	Date.
Endt	1032/96		
G.O.	797	Irr	11-5-96
G.O.	1985	Irr	18-12-94
G.O.	1402	Irr	6-10-94
G.O.	1091	Ir	19-8-93
G.O.	933	Ir	15-7-93
G.O.	1292	Ir	12-8-91
G.O.	753	I.a	26-3-91

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Public Works (1896) Department.

CURRENT No. 11121

Order

From

The Chief Engineer for Irrign.

No. 218. I.

Dated 2d December 1896

Received 8. 12. 96

Enclosures -

Spare copies -

SUBJECT.

Note on the proposed protective bund at Rajahmundry

11/334B Mofgb

BACK PAPERS.

G.O.	No.	Department.	Date.
P.W.C	7931		2. 9. 96
Current	2291	L & M	1. 8. 96
Recpt	218	G.D	8. 11. 96
G.O.	462	I.	28. 5. 96
G.O.	797	M.	11. v 96
do	20226	C	21. 4. 96

FURTHER PAPERS.

G.O.	No.	Department.	Date.

Ro 218 I

Note by the Chief Engineer for Irrigation on proposed protective Bund at Rajahmundry.

In 1892 the inhabitants of Rajahmundry made a request for the construction of a "butress wall" from the ---- Judge's bunglow to Red Rocks for the protection of the street and houses adjoining the river from inundation during floods. The matter was referred to the Superintending Engineer, who reported in his No:861 G. D. dated 30th June 1893 that a wall - would be very expensive and that a bank would do equally well. The matter was allowed to lie over until it was settled whether a high level railway line was to be constructed between the town and the river.

×vide G.O 1091 M / 19-8-93

2. The Manager of the East Coast Railway having stated that there was no necessity for a high level line and Govt: having declined to provide money for the work from Provincial funds, it was proposed that the Municipality should borrow the money required and the council having expressed its --- readiness to do this orders were issued for the preparation of an estimate in the P. W. Department.

G.O No 1402 M. mis dated 6. 10. 94

3. An estimate amounting to Rs 31,600 was accordingly prepared and in submitting it the Superintending Engineer-- called attention to Mr:Garrett's representations that the bund if constructed would cause great inconvenience to boat-- traffic and that drainage would stagnate on the Town sideof the bank when the river was high . The various objections ---- have been discussed and will be found stated and replied to in letter No:550 dated 29th May 1896, in which the Municipal Chairman sets forth at length the views of the Council. The - work as estimated for and adopted by the Council is not --- merely for the protection of the town from inundation. It is also intended to construct a road between the bund and the - houses in order to relieve the congestion of traffic in the main street and to sell as building sites for godowns the - spare

spare land which it is asked that Government should make over to the Municipality .The views of the Council as to the expediency of the work are supported by the Sub Collector and Collector but the latter Officer doubts whether the cost of the work would be covered by the sale of sites as anticipated by the Council. He considers however that the net cost would not be so great that the Municipality would not be able to repay the money in 10 years if Govt:grants the necessary loan.

4. The papers were referred for remarks to the Superintending Engineer who now in his letter No: C/317,dated 8th Novr:1896 brings to notice that as the bund is aligned there would not be in places sufficient width for the proposed road and that to --- obtain the necessary space the line should be taken nearer the river.This would greatly increase the estimate as the ground slopes towards the river.He also considers that the slopes allowed for the bund are insufficient,that the designs for catch drain and culverts are unsuitable and that to attain the object proposed allowing for the alterations he considers necessary in the designs, the work would cost Rupees 50,000.

5. Taking the proposals as they stand in the estimates it appears to me that all available sources of information have not been examined.The utility of the whole scheme depends on the road and building sites not being liable to inundation and this point has been discussed very inadequately and decided in a very summary manner.On examining the river diagrams I find the maximum flood level at Dowlaishweram 55.0 the anicut crest being 38.0 -- while on the plans of the proposed bund it is shown 61.5 to 60.5, average 61.0 or 6 feet above the level at the anicut.The fall of the river between the two places probably does not exceed 4ft in low freshes but as the anicut is to be raised 2ft the future liability of the land at Rajahmundry to submergence during ordinary floods may be fairly well estimated by taking past observations at the anicut and allowing a fall of 6ft.On examining the sections it will be found that the lowest level of the ground which it is proposed to enclose is at the upper end of the bund 51.8 and

at

at the lower end 46.4 and consequently the drainage of the--- land would be stopped whenever the water level at the anicut is 2.4ft on crest and the land inundated from end to end --- when water rises to 7.8ft .Taking the river diagrams almost at random I find that in 1892 water was above 2.4ft on crest for 93 days continuously in July to September and for about two months in October to December and above 7.8ft for 10 days in August and September.In 1894 and 1887 the state of the river was much the same.But it is said that there is seldom rain -- when the river is in flood.To test this the rainfall registers kept at Rajahmundry have been examined and it is found that the average rainfall is for June-------4.85 inches.

July-------6.07 DO

August-----6.36 DO

September----7.18 -DO-

October-----7.49 ---DO--

in fact these are the wet months and there must be a very -- considerable flow from the 107 acres draining to the river. The conclusion from all this is that the estimate by no means represents all the work which would be required and that the whole of the enclosed land would have to be raised above the level of ordinary floods,or conveniently to the level of ends of streets abutting on the river.

As the ground shelves to the river the estimate for a wall or bund rapidly increases with distance from the houses and there seems strong reason to recommend that the Municipality should give up the idea of enclosing land for buildings and mark out what is required for the road only.The P.W.Department can then be asked to estimate for a wall or bund along the -- edge of the road,for raising the enclosure and making the ---

road

37

road at a suitable level.

J J Wilson

For Chief Engineer for Irrigation.

Chepauk

2d Decr 1896

To

The Joint Secretary to Govt.
P. W. D. Irrigation Branch

C/317

38

Public Works (1896) Department.

CURRENT No.

Order

R 48 Gd

From J. C. Larminie Esqr M.I.C.E.
Supdg Engineer 1st Circle

No. C/317

Dated 8th November 1896

Received 14-11-96

Enclosures 2 that accompanied the memo under refce

Spare copies

SUBJECT.

Protective Bund at Rajahmundry — Returning the letter from the Godavari Dt. Collector answering the objections taking by Mr. A H Garrett regarding the construction of the ⟶

BR 14.11.96

2/3343 M of 96

3/11

16/11

BACK PAPERS.

~~G.O.~~ ~~Issue~~	No.	Department.	Date.
I	97	G.D	19-9-96
R	65. G.D.		30.6.93
Pvc	7931		2.9.96

FURTHER PAPERS.

G.O.	No.	Department.	Date.
Issue	218	I	2.12.96

No. $\frac{C}{317}$

From

J. C. Larminie Esqr. M. I. C. E.
Suptg Engineer 1st Circle

To

The Chief Engineer for Irrigation
Madras.

Encs: 2.
herewith returned

Camp Bank Canal Eastern Delta
Dated 8. 11. 1896.
Despd 11.

Sir,

*Enclosures are herewith returned.

I/97 G.D. × With reference to your memo No. of 19. 9. 96, I have the honour to state that it is within the bounds of possibility that the objections raised by Mr. Garrett, to the Construction of the proposed flood bank at Rajahmundry might occur, but at the same time such Conditions are but seldom likely to arise as when the Godavari is in high flood, local rainfall is most unusual.

2. But to the estimate as now drawn up, there are several other objections. One of its Chief objects is to

obtain

~~objects~~ ~~is~~ to obtain space between the River and the margin of the Town, for a road and sites for godowns; space for a Catch Channel will also be required.

3. The plans and sections have not been returned to me; but as far as I can make out from others available in the Eastern Division office (not the originals of those sent in) Mr. Ussher aligned the bank so close to the town — with a view to keeping down the estimate — that in places the available width is 10 feet and less. Consequently one of the primary objects of the work would not be realized.

4. To obviate this, the bank should be run close to the low river margin, when the River side slope should not be less than 2½:1, not alone for stability sake but to facilitate the loading and unloading of boats, which now goes on all along this reach and which could never be confined to the proposed ramps as neither could the public bathing be confined to the narrow flights of

Stonesteps

Stonesteps provided. The inner slope of the bank should also be flattened out to at least 2:1 in view to the constant foot traffic over it.

5. There are now four drainages into the river in line with the various streets. It is proposed to take these up by a catch channel, connected with an outfall sluice. Culverts to carry the catch channel under the ramps, connecting the embankment with each street being also provided. The designs for all these works are scamped and unsuitable and the catch channel (of masonry) would be made a receptacle for sweeping and dirt of all kinds.

6. To carry out the work properly would cost, I have little doubt, fully Rs 50,000, but even at this figure, the Chairman states the Municipality are anxious to undertake it.

7. In high floods no doubt the water stands up to the basements of many of the houses, but it has done so, anyhow for fifty years (since construction of the ancient

without

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without apparently any very evil results, possibly beneficial results.

8. The Chief advantage to be derived from the bank would be the formation of the road. But I question if the Construction of godowns should be allowed, as this part of the town is already sufficiently crowded, free access to the open river would be interfered with.

9. I would invite a reperusal of this office No: 861 G.D. of 30.6.93 on this subject and para 6 in particular.

CHIEF ENGINEER
FOR IRRIGATION
14 NOV.96
No. 218 Id

I have the honour to be,
Sir,
Your Most Obedt Servt

Suptg Engineer
1st Circle

10/11

Ed
9/11

44

LOCAL & MUNICIPAL DEPT.
CURRENT No. 3343/M

No. 48256

Government of Madras.

PUBLIC WORKS DEPARTMENT.

Endorsement
~~MEMORANDUM~~.

Dated Madras, 12th December 1896

Note by the Chief Engineer for Irrigation No. 218 I d/ 2nd December /96.

Forwarded to the Local and municipal department with reference to endorsement No. 1032 d/ 2nd September /96.

Under Secretary
Irrgn: Branch

To

The Local & Municipal Dept
with papers returned

P. W. 41
2,000—6-3-96.

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